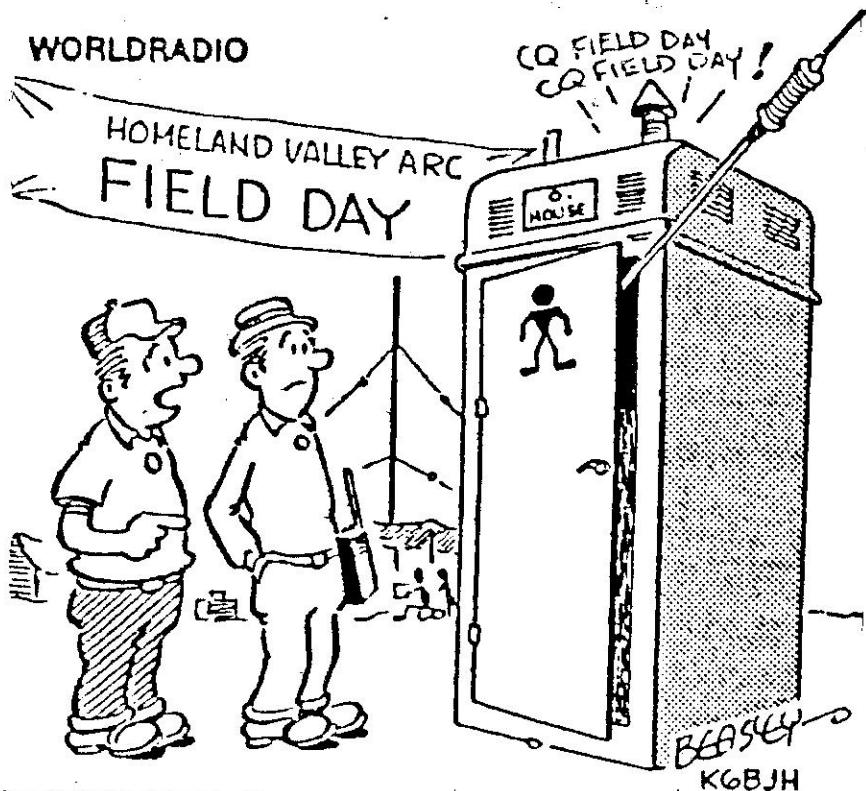


The READOUT

Year 12

Number 6

June 1990



BOY, YOU SURE HAVE TO HAND IT TO OL' LES --- HE DOESN'T WASTE A VALUABLE MINUTE!

Stanislaus Amateur Radio Association

P. O. Box 4601 Modesto, Ca. 95352

The READOUT is published monthly by the Stanislaus Amateur Radio Association. COPYRIGHT 1990 by the Stanislaus Amateur Radio Association, (SARA), Modesto, CA. All Rights Reserved. Permission is granted for reproduction in whole or in part provided that credit is given to **The READOUT** and to the authors of the reproduced material.

1990 SARA Officers

President

Phil Hartz W0FFX 544-8515

Vice President

Oliver Boms . . KJ6YZ 576-7718

Secretary

Linda Franklin N6REB 537-1123

Treasurer

Al Dionizio . . . N6SAE 523-4485

SARA VHF Net

Thursdays @ 8 p.m. (Except Holidays)

2 meters 145.39 MHz WD6EJF

220 Band 223.68 MHz WD6EJF

Contributions to **The READOUT** are always welcome and may be submitted to the editor by mail or via packet at N6REB-BBS on 145.79 MHz. The deadline for articles is the 15th of the preceding month.

Editor

Bob Pinheiro, WA6ZLO

1221 Mist Flower Ct. Modesto, CA.

95355

**Next SARA
Meeting
June 19, 1990
730 pm
County Administration
Building
12th and H Streets
Modesto, CA.
Lower Level Conference Room**

**Budget
Copy Center**

**Your Authorized Xerox
Copy Center**

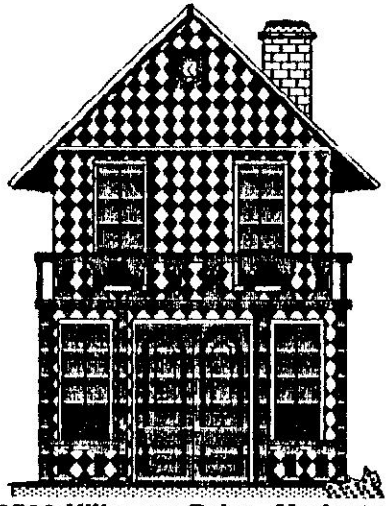
**Laminating Collating
Stapling Spiral Binding
Letterheads Folding**

Business Cards

1321 J St at 14th

529-5395

Modesto, Ca.



2509 Kilkenny Drive , Modesto

**1990 SARA
Garage Sale**
>Saturday<
June 9, 1990
>7 am - 4 pm<
WD0FFX's Home
2509 Kilkenny Drive
Modesto, CA.

Your Donations Are Needed!!

Following on the heels of a highly successful sale last year, the 1990 SARA Garage Sale will be held on Saturday, June 9, 1990 at our 2509 Kilkenny Drive in Modesto, which is the home of our President, Phil Hartz, WD0FFX. The first attempt at a sale last year brought in over \$500 from the day long event. The secret, in addition to hard work, was the tremendous donations that we received from various SARA members. We need your generous support again! Please go through your storage areas and clear out anything of value and set it aside.

Phil will not accept any donations before June 2, 1990. He just does not have the room to store the items. So, please don't take them over before that date. Also, any help in running the sale would be greatly appreciated. Please remember, the key to success is the quality of the donations. So, please be generous. If you have any questions, please contact Phil at 544-8515. Phil's home is in East Modesto. Take Scenic Drive East from Oakdale Rd. approximately 1/4 mile to McGuire. Turn North on McGuire about 6 blocks to Kilkenny and turn East to Phil's home. Thank You!

Judge Throws Book At Con-Man

Michael Harrison Sentenced To 21 months & Fined

A Federal Judge in New York has literally thrown the book at Michael Harrison, WB2PTI, 37, of Oceanside, New York, who defrauded Amateur Radio operators out of thousands of dollars in a fraudulent mail order sales scheme. It all started in the Fall of 1988 when Harrison placed full page ads in 73 Magazine declaring that the defunct Atlas and Dentron Radio Companies were back in business at two different Long Island, New York, post office addresses. Smaller ads were placed in other ham publications. The ads offered Uniden ten-meter transceivers at a price which sounded too good to pass up. Dozens of Amateurs placed orders and sent in their money receiving nothing in return. Uniden disavowed any knowledge of Atlas...as did the original owners of Atlas and Dentron.

In late January of 1989 Harrison was arrested for Mail Fraud by U.S. Postal Inspectors and subsequently indicted by a Federal Grand Jury on 50 counts of Mail Fraud on August 28, 1989. He was released on \$25,000 bond.

Following his release on bail, he placed more mail order ads in January of 1990 which violated the terms of his bail. He was ordered into court but failed to appear. He was located and arrested again on February 14, 1990 and jailed.

On February 26, 1990, Harrison pled guilty to five counts of Mail Fraud Judge Mischler. Since there was to be no jury, the W5YI Report published the address of the Judge who would be sentencing Harrison and invited readers to write to him. Many did and the judge threw the book at him!

On April 19, 1990, Judge Mischler sentenced Harrison to 21 months in prison, a \$125,000 fine, full restitution, plus interest to

Harrison Sentence

1. 21 months in federal prison
2. Full Restitution plus interest
3. 3 years probation
4. Pay \$1,210.00 per month for confinement costs
5. Return any equipment in his possession

each victim, and three years of probation after he completes his jail term. Additionally, Harrison must pay \$1,210.00 a month to the Bureau of Prisons for his confinement costs. Harrison has also agreed to return any equipment he received from his recent victims. As a condition of his sentence, Harrison must make full restitution within five years including interest.

It is doubtful that he can comply...so the story apparently is not over yet.

-W5YI Report

N6REB-BBS On The Air In Modesto

145.79 MHz

By, N6REB

As you all know, Ed, WB6V, shut down his local BBS WB6V-2. At the time, I did not have the extra equipment to handle the 220 forwarding to W6FGC in Twain Hart at that time, so everyone was moved to W6FGC.

I recently was able to acquire this extra equipment and Burt, W6FGC asked if I would put a BBS on line for Modesto users. I enjoyed doing the backup for Ed while he was on, so I said yes.

The N6REB-2 BBS is now on line with 220 forwarding to W6FGC to the backbone network. It was very time consuming at first

configuring the internal TNC's and loading the BBS program with all the necessary files and parameters to run things smoothly. But now everything is running very well and for those who wish to use N6REB-2, or use it as their home BBS, are quite welcome. N6REB-2 is located on 145.790 and presently has a pending coordination for that frequency.

I will do my best to keep the N6REB-2 BBS available at all times. I have a backup program all ready to put on line with another computer if anything should happen. Drop by and at least say hello.

EMF Risk Studies Continue

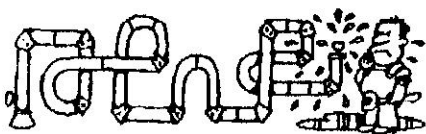
Further studies are being done on electromagnetic exposure by laboratories and research centers in about a dozen countries.

An estimated \$15 million a year is being spent to investigate whether electric or magnetic fields, such as those associated with power lines, common house wiring, or appliances, pose a health risk.

The new perspective is reflected in a paper issued last June by Congress' Office of Technology Assessment, which says that recent epidemiologic studies, although controversial and far from conclusive, are beginning to provide a basis for concern about risks from chronic exposure to EMF (electric and magnetic fields).

The Soviet Union has long had much more stringent standards in this area than the U.S.

Who Do I Look Like, Mr. Goodwrench?



A ham radio operator came home one day and his wife said, "Honey, my car broke down today. Could you take a look at it?" He looked at her and said, "Who do I look like, Mr. Goodwrench?"

The next day he came home and she said, "Honey, we blew a fuse and now the lights in the kitchen aren't working. Could you look at it?" He looked at her and said, "Who do I look like, Thomas Edison?"

The next day when he came home his wife said, "Honey, the pipes burst and I had to call a plumber. The problem is that after I paid the mechanic to look at the car and an electrician to look at the wiring, I didn't have any money left to pay the plumber." "So, what did you do?" he asked. Well as luck would have it the plumber was a ham radio operator like you, and he said that I could either fix him a home cooked meal, or give him that little radio of yours...you know, the one that you carry around on your belt when you go the swap meets."

The old man gasped and said, "Surely you cooked him a meal, right??"

See looked at him and said, "Who do I look like, Betty Crocker??"

-Thanks Southern Sierra ARS

ARRL Reaffirms Support For Novice & Technician Class Licenses

A special working group has recommended to the ARRL Board of Directors several clarifications of the leagues position on a code free Amateur license, as stated in RM- 6995.

Among the committees recommendations were reaffirming support for both the

Novice and Technician class licenses, calling them absolutely essential, as well as supporting the retention of examination credits already earned.

The Board seeks input from members on this topic before its July meeting, when a formal position will be considered.

How to Apply For California Ham Plates

If you haven't done it already, here's the information you will need to know in order to apply for and receive California license plates with your Amateur call on them.

Section 5005 of the California Vehicle Code (CVC) says...* (a) Any person holding an unexpired Amateur radio station license issued by the FCC, may, after the requirements for the registration of the motor vehicle have been complied with, also apply directly to the department for special license plates in lieu of the regular license plates.

The special plates shall be affixed to the motor vehicle for which registration is sought and, in lieu of the numbers otherwise prescribed by law, shall display the official Amateur radio station call letters of the applicant as assigned by the FCC.

The applicant shall, by satisfactory proof, show that he or she is the holder of an unexpired license. (b) The department shall not issue more than one set of special plates for any licensed Amateur radio station. (c) In addition to the regular fees for an original-registration or renewal of registration, the following special fees shall be paid: (1) Twenty dollars for the initial issuance of the special plate. (2) Twelve dollars for transfer of the special plate to another vehicle. (Effective January 1, 1983).

A note of caution, if you are applying for the first time, be prepared to refer the people

at DMV to this section, 5005 CVC. Otherwise, they may (and often do) make the mistake that you are applying for a so-called environmental or personalized plate which are \$25.00. So, remember, \$20.00 when you apply for the first time and get new plates, and \$12.00 to transfer the plates from the old car to the new car if you are changing vehicles.

If you applying for the first time, be sure to take your Amateur license with you to prove you hold a valid license.

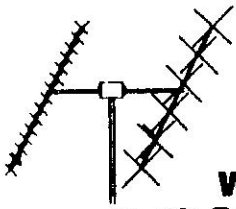
It takes from 45 to 60 days to get the new plates if all goes well. It doesn't make any difference what class of license you hold, the only consideration is whether you planning to upgrade and/or change calls.

TVI Problems?

Having TVI problems? SARA has an excellent TVI committee which would be glad to help you out. The committee was formed several years ago and has helped several SARA members with TVI problems. TVI is a bit of a misnomer because the committee works on any type of Radio Frequency Interference (RFI) problem. Most common complaints nowadays are with VCR's. If you have a problem, contact Dan, W6SBE at 521-2032 or LeRoy at 523-4727.



Amateur Satellites



WB5ZDP
Kelth Berglund

WorldRadio

They're up!

AMSAT is pleased to announce the successful launch of six count'em six new OSCARS. OSCARS 14, 15, 16, 17, 18 and 19 were launched aboard a European Space agency Ariane-4 rocket on Jan. 22 at 0:134 utc. All of the new OSCARS are of the "microsat" design and are contained in a package of less than one cubic foot each.

The main new OSCAR that is of interest to the beginner in Amateur satellites is OSCAR-17. This satellite, also known as "DOVE", can be heard on 145.825 MHz FM.

The main thing that you'll hear is common terrestrial packet copyable on any packet TNC (and boy is it loud!). Using a common 2M rig, I have no trouble copying screens full of data while using an indoor quarter-wave mag-mount antenna. What you'll see

on your screen is mostly hexadecimal data, with some plain text information on time and telemetry thrown in. This may not seem like much at first, but keep in mind that the data you're seeing is coming from a satellite in space, 800 km away!

In future articles I'll cover what this data means. In a few months, they're going to turn on a digitized voice that will replay uploaded messages. The plan is to alternate between packet and voice.

Satellite telemetry

The only way that we here on Earth can know the conditions in and around a satellite is if the satellite tells us. Once the bird is in orbit it's there for life and is quite impossible to get to.

Some have asked me if the space shuttle could rescue a sick OSCAR. The answer is definitely no. Some physical reasons aside, the main reason is economics. I'm sure that NASA would be hesitant to allocate a \$14 million shuttle flight to rescue a \$300,000 OSCAR. It would be cheaper just to launch another.

So, what this boils down to is that we have to listen to what the satellite is telling us. By knowing and analyzing things like skin temperature, battery voltages, current drains and charging rates, the spacecraft controllers can get a complete picture of the health of the bird. If they see anything abnormal in the telemetry, they can take corrective action to head off any potential problems.

In the long run, this will maximize the life and usefulness of the OSCAR spacecraft to radio Amateurs everywhere.

See 'Satellites' Page 9

A bit of history

Since the beginning, all satellites have had some form of on-board telemetry. After all, what's the point in launching a satellite if you can't tell what it's doing.

In the early days of spaceflight, design

Satellites
From Page 8

engineers were very concerned with the temperature extremes that would be encountered in space. In 1961 OSCAR 1 had a primitive (but effective) on-board telemetry system. To measure the spacecraft temperature, it had a 145 MHz beacon that transmitted the letters "HI" in CW over and over again. The on-board transmitter incorporated thermistors that would vary the code speed as a function of temperature. By counting the number of "HI"s sent per minute, Amateur radio operators (or anybody with a 2M receiver) could use a simple formula to calculate the actual spacecraft temperature.

As subsequent OSCARs became more complex, the number of on-board systems needing to be monitored grew. In 1972 OSCAR 5 was launched, with an on-board telemetry package that monitored 24 different parameters. The status of each system was relayed to the ground by a CW beacon.

OSCAR 7 had a CW telemetry beacon similar to OSCAR 6's; however, in addition, there was an RTTY beacon that monitors over 50 different channels of data!

AMSAT's newest Phase III satellite, OSCAR 13, has a very sophisticated telemetry computer that monitors over 50 different data points. When not transmitting telemetry and messages in CW or RTTY, OSCAR 13 transmits 400 baud BPSK (biphase shift keying), giving ground stations a concise and up to the minute picture of the latest condition of all sub-systems on the satellite.

RS-10/11 telemetry

Since this is a beginner's column, let's start with decoding the telemetry on a satellite that is easy to decode and easy to hear.

RS-10/11 is a Mode A satellite making telemetry reception possible for anybody with an HF rig or general coverage receiver. The actual telemetry is transmitted by common 18 wpm CW and is easy to copy with even modest antennas.

The frequencies to listen to are 29.357 MHz if RS-10 is on, and 29.407 MHz if RS-11 is on. The CW is relatively easy to copy; however, it is best to tape record the information and play it back to insure accuracy.

The CW telemetry is presented in the form of two letters followed by two numbers. Each set of numbers and letters is called a block of 16 blocks make a frame.

Decoding a frame of data provides a "snapshot" in time of the conditions on board the satellite. Decoding several frames of data over many days or weeks provides a dynamic, ongoing picture of the life of the satellite.

See 'Satellites' Page 10

If several frames of data are decoded over a long period of time, several interesting patterns result. Voltages and temperatures will fluctuate, depending on whether the satellite is observed during the day or night. Cur-

Satellites
From Page 9

rent drains and receiver attenuation will fluctuate, depending on how many users are on the transponders and which transponders are on. I have observed that the receive attenuators are more likely to be switched in on the weekend. I would be curious to know what patterns you observe.

Decoding RS-10/11 telemetry is really quite simple. After recording a frame of data, the decoding process can begin by referring to Each block consists of two letters followed by two numbers. The letters tell which subsystem is being measured and the numbers represent the value for that parameter.

As an example, look at Figure 1. The block reads "NU28." The "NU" indicates that the 10 db receive attenuator is "out" and the 28 indicates that the 10M power output is 2.8 W ($28/10 = 2.8$).

24JAN90

RS-10	IS80	IROO	NU28	IGOO
	NUOO	IW46	IK00	IOOO
	MS34	AR34	AD37	AG33
	MUOO	MWOO	MK46	A089

Figure 1

The ninth block of data reads "MS34." Again, referring to Figure 1, the MS indicates that the first memory board is "ON" and the 34 says that the 10M transmitter temperature is 24 degrees celsius ($34-10 = 24$).

So what Now?

Decoding RS-10/11 telemetry may seem like a tool for ground stations and an exercise for the serious satelliter. However, this is not true for those who only make a few contacts through the satellite now and then. A quick look at the telemetry will reveal much information. For example, a glance at Blocks 4 and 5 (Figure 1) will tell you which radio to use on the uplink. In the case of the 24JAN90 date in Figure 1., the "IG" indicates the 15M receiver is "OFF" and the "NU" indicates that the 2M receiver is "ON". What this means is that the bird must be in Mode A and not in Mode K or K/A. This hypothesis is further confirmed by noting that in block 2, there is no 2M transmitter output power and in block 4 there is no 15M receiver AGC (QED...Mode "A").

More next month.

Remember....
Send In Your Raffle
Tickets/Stubs
And Proceeds No
Later Than June 30, 1990

FCC Forbids Regulation

ARRL Counsel Chris Imlay, N3AKD, received a letter from FCC General Counsel Robert L. Pettit, reaffirming the fact that radio frequency interference (RFI) matters have been preempted by Congress. Imlay had requested an opinion on a Pierre, South Dakota, ordinance regulating RFI.

The letter from the FCC stated that Congress has preempted any concurrent state or local regulation of RFI pursuant to the provisions of the Communications Act. The Act provided that the FCC "may, consistent with the public interest, convenience and necessity, make reasonable regulations (1) governing the [RFI] potential of devices which...are capable of emitting radio frequency energy...in sufficient degree to cause harmful interference to radio communications...."

The FCC says the legislation provides explicitly that the Commission has exclusive authority to regulate RFI. Congress declared "the reservation of exclusive jurisdiction to the FCC over matters involving RFI. Such matters shall not be regulated by local or state law, nor shall radio transmitting be subject to local or state regulation as part of any effort to resolve an RFI complaint."

See FCC Regulation Page 15

FCC Inspector At June Meeting

A special program has been lined up for our June 19th SARA meeting. We are pleased to announce that Mr. Tom Hora, an Inspector with the Federal Communications Commission will be our speaker.

Mr. Hora is assigned to the FCC Monitoring station at Livermore, and will hold and question and answer session following his presentation. This promises to be an excellent program. Circle that date, Tuesday, June 19, 1990 at County Center 3. All members and visitors are most welcome.

Questions on the proposed new Communicator License and antenna ordinances will be answered. Don't miss this meeting!

Contributions To The READOUT

Contributions to *The READOUT* can be made through my Packet Mailbox on the N6REB BBS, 145.79 MHz in Modesto. Column width and length are not critical. I download all contributions into the word processor and get them ready for the newsletter. If you mail your contribution, please send it to my home address listed on Page 2, not to the post office box.

All contributions are welcome and carefully considered. Articles involving religion or politics are not accepted.*de WA6ZLO.*

SARA Minutes

By Linda Franklin, N6REB
Club Secretary

May 15, 1990

The May 15, 1990 meeting was called to order at 7:30 pm by President Phil, WDOFFX. Introductions were made by 33 members and guests. Minutes of the last meeting were read by Secretary N6REB, and approved.

Treasurer Al, N6SAE, gave the following report: Beginning balance as of 4/18/90 in the General account was \$2,194.74. One deposit of \$57.35 was made bringing the total to \$2,252.07. Debits for checks written and bank charges for a new supply of checks totaled \$792.10 bringing the ending balance to \$1,459.97.

The Fund Raiser Account on 4/18/90 totaled \$156.55 with 2 deposits totaling \$545.00 bringing the ending balance to \$701.55 as of 5/15/90. The Education and Training account after a debit of \$250 for new books now stands at \$575.27. N6SAE announced also that the club insurance has been paid for the next year. The Treasurers report was approved.

Vice President Oliver, KJ6YZ gave a few words on the raffle and participation and announced that the speaker for the June 19 meeting will be Tom Hora of the FCC. Everyone was encouraged to attend and to have ready any questions they may have for Mr. Hora. LeRoy, NV6S reported that he has some antenna work to be done at the repeater

site and that we are experiencing some interference on our uplink between the 2 meter side and 220 side. It is coming in on the 220 link frequency due to a new repeater that was sanctioned in the Fairfield area. He feels he can null most of the interference out with the 13 element beam. Aside from that at present the equipment is working. The autopatch transceiver at Steve, N6EKV's house is still marginal, but at last report it was still working.

He also reported that to set up a club packet station aside from the donated IBM clone, single disk drive, the club would need a 20 meg. hard drive, 2 tnc's, 220 radio, and also a couple of antennas. Tom, N6LSF has donated a printer, and two oscilloscopes, two terminals which will be used for parts and 2 telephone modems. The cost to get a club packet BBS was estimated at \$600 to \$700.

Bob, WA6ZLO, suggested since N6REB-2 BBS is on line now, that the funds toward packet equipment should go toward the repeater. Jim, N6KMR, made a motion to table further discussion on the packet in lieu of pricing and further information for 30 days until the next meeting. Motion was seconded and carried.

Phil, WDOFFX announced that the club did not have a station set up for passing traffic at this years POW WOW in Valley Springs due to no participation.

Volunteers were asked to help work in the Fireworks stands this year to increase revenues for the club Fund Raiser Account. Seven members volunteered their time at the

See Next Page

Minutes From Page 12

meeting and all others may contact Steve, N6EKV and Oliver, KJ6YZ for details on advanced sales and helping in a stand. One stand is located near the K-Mart store in Turlock, and the other is located near the Acapulco Restaurant on Mc Henry Ave.

WDOFFX announced that the classes are going well and that there are three new people coming into the class. The club garage sale will be held on June 9 at Phil, WDOFFX's house, 2509 Kilkenny Drive, Modesto. Donations of sale items will be taken at Phil's house starting June 2nd. The time of the sale will be 7am to 4pm and volunteers to help out during that day are needed.

A break was taken at 8:20 and the meeting resumed at 8:35. Field Day this year will be June 23 & 24, and the need for people to participate is important. The club station equipment can be used to set up a Novice station, but the need for a generator to run the radio equipment was brought up by Charlie, KJ6GE.

Mark, N6WCW will be participating in the Goodwill Games July 20th and anyone interested in joining in please contact Mark.

The matter of the antenna restrictions in Ceres and the citation issued to Frank, N6YHY, was discussed. Frank reported that with the help of several club members, the citations have been dismissed. WDOFFX asked for a committee to be formed to go with Frank, N6YHY to work with the City Council members of Ceres to amend and possibly rewrite the laws pertaining to antennas in their

jurisdiction. The point now is to cooperate and not make waves concerning this matter.

Phil, WDOFFX, read a letter addressed to LeRoy, NV6S, as trustee, asking permission to install a 2 meter repeater in the Northern Sonoma County near Cloverdale on 145.390. After careful consideration and on the basis of past experiences with the Santa Rosa 146.73 repeater, which caused considerable interference, a motion was made by Jim, N6KMR that we deny the request of Darrel J. Van Byer, K16VY. The motion was seconded and carried. Mark, N6WCW also made a motion that a copy of the letter of denial be sent to the NARCC so they are made aware of it also. The motion was seconded and carried.

WDOFFX reported that the Downey High School administration has given its total support to the club station site. Also Scott Osgall, Director of Facilities for the Modesto School District has proposed accept the suggested hours of operation from 7 or 8am to 11pm Monday through Friday when their custodial services people are on campus. Phil said he expected the negotiations on the club station site to be finished in about one week. N6KMR made a motion that Phil, WDOFFX go ahead and accept the terms outlined by the school. The motion was seconded and carried.

The evenings raffle was held with Gordon, AA6TQ receiving a butane lighter for Coleman stoves and lanterns, and Christia, KB6GYM, receiving an electric kettle lighter for charcoal briquets. The raffle added \$36 to the Fund Raiser Account. The meeting was adjourned at 9:25pm. Respectfully submitted by Secretary, Linda, N6REB.

Editor's Notes

By, Bob Pinheiro, WA6ZLO

Welcome to new SARA members Joe Fabbri, KB6YYT, of Manteca. Joe is a new Novice and a college student. Welcome back Jason Peitz, KA6TIO, of Modesto. Jason is an electrical machinist with M&ET railroad. He is also the son of SARA member Bill Peitz, W6AFS. Welcome to Skip Kritcher, KC6KBU, of Tracy who holds a Technician class license, and Ea Dara, N6YJS of San Jose. Ea is a General Contractor first licensed in 1989. With these new members our 1990 membership stands at 158 and growing.

- The raffle ticket sales are doing well thanks to you. The treasurer reported at the last meeting that we have already received over \$600 in donations. That made him happy because we have already paid for the grand prize. The rest, less a few expenses, goes to the repeater restoration fund. So, please get out there and get those donations. Please remember to turn your money and ticket stubs in no later than June 30, 1990. The drawing will be held on July 4, 1990. If you have any questions, contact, Al, N6SAE, at 523-4485.

- Don't miss our meeting in June! We are fortunate to have an FCC Inspector speak to us and answer questions. Mr. Tom Hora is assigned to the Livermore FCC office. These fellows are hard to get for speaking engagements because of severe budget restrictions. So, don't miss this one!

- Don't forget the Club's 1990 Garage Sale coming up on June 9th. (See Page 3). Your donations are most needed and the manpower needed for the fireworks booths.

- Our TVI committee solved a problem for SARA member Gregory, KA6VVV. Dan, W6SBE, one of our super sleuths tracked the neighbors problem down to unshielded speaker wires running through the attic from one side of his home to the other. They, of course, were acting as antennas to receive RF from Gregory mere 40 watts on 15 meters. We are really fortunate to have Dan, and his partner on the committee, LeRoy, NV6S, volunteering their time and talents. If you have a problem that you can not solve on your own, call either of them. Their numbers are in the roster. Speaking of TVI, Frank, N6YHY, had a run-in with the City of Ceres over TVI and antenna restrictions. We had hope to have Frank's story in time for this edition but couldn't quite make it. So, we plan to have a full report next month.

- The enhanced 911 Emergency system came on line in the Stanislaus County Communications Center last month. With this enhancement, when a 911 call comes in, the telephone number the call is coming from and the name and address of person the phone is listed to pops up on the dispatchers screen the moment the connection is made. This is made possible by tying the 911 system into the phone company's database computers. Also, 911 calls going to Oakdale, Turlock and Ceres no longer have to pass through the Communication center.

See Next Page

Fireworks Fund Raiser

The club has opted to take advantage of a money making opportunity by participating with local Sea Scouts in providing manpower to operate two fireworks booths in Modesto and Turlock the week of the fourth of July. The club would earn money from the profits of each booth manned prorated on the percentage of time each SARA member puts in. Pre-4th of July sales net 30% of the profits.

The booths are owned, licensed and insured by the Sea Scouts. Our commitment is for manpower only. The booths are located in two choice locations, on McHenry Ave in Modesto next to the Acapulco Mexican Restaurant and in Turlock on the K-Mart parking lot at West Main and the Hwy 99 freeway.

If you can donate a couple of hours or more during the week of June 30th through July 4th, or for more information, please contact Steve, N6EKV, at 521-7834 as soon as possible.

Editor's Notes

From Page 14

- Regarding the IBM clone computer that was donated to the club in April, a slight correction. The computer was donated by Consilium, Factory Floor Management Software, 640 Clyde Ct. Mountain View, CA. The person who was instrumental in helping us was Bruce Rodgers. Frank, N6YHY, does not work for them as we reported. Frank only picked up the computer and transported it for us.

That's it for this month. Please remember the Raffle, Garage Sale and Fireworks booths as our fund raisers.

Remember...

**Return Your Raffle Tickets/Stubs
By June 30, 1990**

Modesto Exam

The June exam session is coming soon. Our next session is Thursday evening, June 7 @ Chrysler School. Code tests begin at 6:30 p.m. All examiners should be there at approximately 6:00 p.m.

Please advise me of your availability. I will make up a roster of 6-7 VEs for the evening

Forward your response to W6XK @ N6REB or call (209) 883-2968. Vy 73, Chet W6XK

FCC Regulation

From Page 11

The FCC letter stated that "state laws that require penalties as a consequence of [RFI] thus has been entirely preempted by Congress."

The Regulatory Information Department at ARRL HQ has copies of the "Pettit Letter" available for an SASE.

-ARRL Bulletin

-- Calendar --

June 7, 1990	V.E. Exam In Modesto	630 pm
June 9, 1990	SARA Garage Sale	7am-4pm
June 19, 1990	SARA Monthly Meeting	730 p.m
	Speaker- FCC Inspector	
June 23-24	1990 Field Day	24 Hrs.
July 17, 1990	SARA Monthly Meeting	730 p.m
Aug. 21, 1990	SARA Monthly Meeting	730 p.m
Aug. 21, 1990	SARA Monthly Meeting	730 p.m.
Sept. 18, 1990	SARA Monthly Meeting	730 p.m.
Oct. 12-14	Pacific Division Convention	3 days
	LeBaron Hotel, San Jose	
Nov. 20, 1990	SARA Monthly Meeting	730 p.m
Dec. 18, 1990	SARA Monthly Meeting	730 p.m

SARA meets the third Tuesday of each month (except holidays) at t County Administration Building at 12th and H streets in downtown Modesto. The meetings are held in the lower-level conference room starting at 730 p.m. Visitors and interested parties are welcome.

Stanislaus Amateur Radio Association
P.O. Box 4601
Modesto, CA. 95352

Address Correction Requested

Bulk Rate
U.S. Postage
PAID
Permit 5
Modesto, CA.

1990

